

## **SPECIFICATION AMENDMENTS**

On page 1, insert above line 1, insert--Priority Claim

The present application claims priority on European Patent Application 04251064.4 filed 26 February 2004.--

On page 1, above line 1, insert--Field of the Invention--

On page 1, above line 3, insert--Background of the Invention--

Amend the paragraph on page 3, line 12 as follows:

--Accordingly, the subject invention provides a process for the carbonylation of a conjugated diene, comprising reacting the conjugated diene with carbon monoxide and a co-reactant having an active hydrogen atom in the presence of a catalyst system including:

- (a) a source of palladium; and
- (b) a bidentate diphosphine ligand of formula II,



wherein  $P^1$  and  $P^2$  represent phosphorus atoms;

$R^1$  represents an optionally substituted divalent organic group linked to the phosphorus atom by two tertiary carbon atoms; and  $R^2$  and  $R^3$  independently represent univalent groups of from 1 to 20 atoms containing a tertiary carbon atom through which each group is linked to the phosphorus atom, or  $R^2$  and  $R^3$  jointly form an optionally substituted divalent organic group containing at least 2 tertiary carbon atoms through which the group is linked to the phosphorus atom; and R represents a divalent bridging group comprising 3 atoms through which  $P^1$  is linearly connected to  $P^2$ ; preferably,  $R^1$ , and/or  $R^2$  and  $R^3$  together represent a 2,2,6,6-tetra-substituted phosphinan-4-one structure, or a 2,2,6,6-tetra-substituted phosphinan-4-thione structure; and

- (c) a source of an anion.--

On page 4, above line 1, insert--Detailed Description of the Invention --

Paragraph on line 19 of page 7 has been amended as follows:

--Of these, particularly preferred divalent monocyclic structures R<sup>1</sup>, and optionally R<sup>2</sup> and R<sup>3</sup> together are for instance 2,2,6,6-tetrasubstituted phosphinan-4-one or 2,2,6,6-tetrasubstituted phosphinan-4-thione structures, the ring atoms of which may be optionally substituted by heteroatom. Ligands comprising such structures may be conveniently obtained under mild conditions as described in U.S. Published Application No. 2004059157 (equivalent of WO 02/064249), which is herein incorporated by reference.--

Paragraph on line 22 of page 14 has been amended as follows:

-- The reaction pressure is usually at least atmospheric. Suitable pressures are in the range of 0.1 to 15 MPa (1 to 150 bar), preferably in the range of 0.5 to ~~8.5~~ 8.5 MPa (5 to 85 bar). Carbon monoxide partial pressures in the range of 0.1 to 8 MPa (1 to 80 bar) are preferred, the upper range of 4 to 8 MPa being more preferred. Higher pressures require special equipment provisions.--

On page 19, above line 1, insert--We claim:--